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PHOTOGRAPHIC INTERPRETATION REPORT



GOLDEN TREE MISSION 8103
23 JUNE 1966

NPIC/R-198/66

MAY 1966

Declass Review, NIMA/DoD

GROUP 1 EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

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WARNING

This document contains information affecting the national defense of the United States, within the meaning of Title 18, sections 793 and 794, of the U.S. Code, as amended. Its transmission or revelation of its contents to or receipt by an unauthorized person is prohibited by law.

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PREFACE

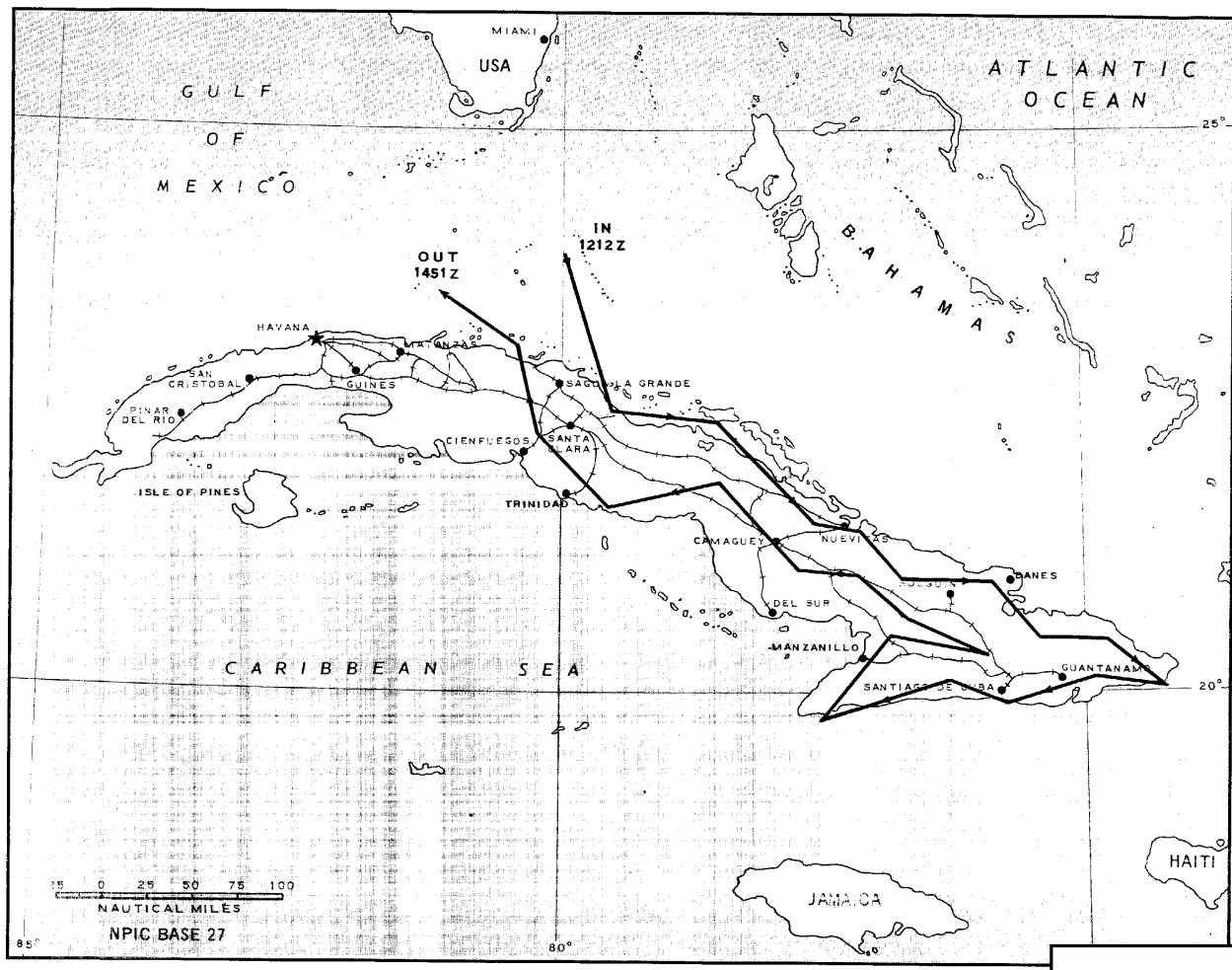
THE FOLLOWING INFORMATION REPRESENTS A PRELIMINARY ANALYSIS OF AERIAL PHOTOGRAPHY FROM GOLDEN TREE MISSION 8103, 23 JUN 66. THE NUMBER AT THE RIGHT MARGIN OF THE HEADER LINE IS THE COMOR TARGET NUMBER.

SYMBOLS USED TO INDICATE CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON PHOTOGRAPHY ARE AS FOLLOWS--
C (CLEAR), SC (SCATTERED CLOUD COVER), HC (HEAVY CLOUD COVER), H (HAZE), CS (CLOUD SHADOW), SD (SEMIDARKNESS), GC (GROUND COVER), CF (CAMOUFLAGE), O (OBLIQUITY), AND GR (GROUND RESOLUTION).

INTERPRETABILITY OF THE PHOTOGRAPHY IS CATEGORIZED AS G (GOOD), F (FAIR), OR P (POOR). THE EXTENT OF TARGET COVERAGE IS DENOTED BY THE SYMBOLS T (TOTAL) OR PT (PARTIAL). THE MODE OF COVERAGE IS SIGNIFIED BY ST (STEREO), NS (NONSTEREO), OR PS (PARTIAL STEREO).

AAA DEFENSES ARE DIVIDED INTO THREE BASIC CATEGORIES -- LIGHT (ZPU-2, ZPU-4, AND 37MM), MEDIUM (57MM AND 85MM), AND HEAVY (100MM AND LARGER). WHERE SUCH A CATEGORY CANNOT BE DETERMINED, THE SITE WILL BE LISTED AS AN AAA SITE AND THE NUMBER OF GUNS INDICATED (EXAMPLE 6-GUN AAA SITE, OCCUPIED/UNOCCUPIED).

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APPROXIMATE TRACK OF GOLDEN TREE MISSION 8103, 23 JUNE 1966

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ITEMS OF SPECIAL INTEREST

TWO SA-2 SAM SITES ARE NEWLY IDENTIFIED ON THIS MISSION.

SAN PEDRO DE CACOCUM SAM SITE 1 IS AN UNREVIEWED, OCCUPIED FIELD-TYPE SITE (SEE ATTACHMENT 1).

SAN PEDRO DE CACOCUM SAM SITE 2, LOCATED 1.7 NM SOUTH OF SITE 1, IS A REVIEWED, UNOCCUPIED SITE UNDER CONSTRUCTION (SEE ATTACHMENT 2).

MISSILES

25X1

HOLGUIN SAM SITE B27-2

CU 2052N 07627W

OB -- 6 UNREVIEWED LAUNCHERS, 8 MISSILE TRANSPORTERS, 1 POSSIBLE MISSILE TRANSPORTER, AN OCCUPIED GUIDANCE AREA, AND 5 VEHICLES/PIECES OF EQUIPMENT OBSERVED IN CLOUD-FREE AREAS.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

LOS ANGELES SAM SITE A06-2

CU 2100N 07541W

OB -- 6 EMPLACED LAUNCHERS (3 WITH MISSILES), 7 MISSILE TRANSPORTERS (2 WITH EXPOSED MISSILES), AND A GUIDANCE RADAR WITH 6 ASSOCIATED VAN TRAILERS.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

MALDONADO SAM SITE A18-2

CU 2012N 07528W

SITE REMAINS OCCUPIED.
OBLIQUITY LIMITS INTERPRETATION.

25X1

PRESTON SAM SITE A17-2

CU 2044N 07538W

SITE APPEARS TO BE ABANDONED. NO MISSILE-ASSOCIATED VEHICLES/PIECES OF EQUIPMENT OBSERVED.

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NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.



25X1

RANCHUELO SAM SITE A33-2

CU 2223N 08010W



ORIGINAL SITE REMAINS VACATED AND CENTRAL GUIDANCE AREA IS BEING REVETTED.

OB (AT ADJACENT TEMPORARY SITE) -- 6 EMPLACED LAUNCHERS (4 WITH MISSILES), 12 CANVAS-COVERED MISSILE TRANSPORTERS, A GUIDANCE RADAR WITH 6 ASSOCIATED VAN TRAILERS, AND 3 OTHER VAN TRAILERS.

ACTIVITY -- 1 OCCUPIED 6-GUN AAA SITE.

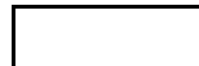
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.



25X1

SANTA CLARA SAM SITE A34-2

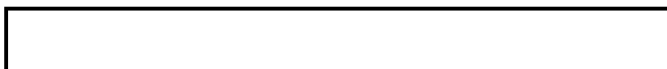
CU 2229N 08000W



OB -- 6 EMPLACED LAUNCHERS (2 PROBABLY WITH MISSILES), 9 MISSILE TRANSPORTERS, AN OCCUPIED CENTRAL GUIDANCE AREA, 3 VAN TRAILERS, AND 5 OTHER VEHICLES.

ACTIVITY -- 2 OCCUPIED 6-GUN AAA SITES.

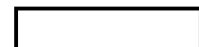
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.



25X1

SANTIAGO DE CUBA SAM SITE A23-2

CU 1959N 07550W



OB -- 6 EMPLACED LAUNCHERS (1 WITH MISSILE), 8 MISSILE TRANSPORTERS (5 WITH EXPOSED MISSILES), A GUIDANCE RADAR WITH SHED-COVERED EQUIPMENT, 3 TRACKED PRIME MOVERS, 1 CARGO TRUCK, AND 5 VAN TRAILERS.

ACTIVITY -- 1 OCCUPIED 6-GUN LIGHT AAA SITE.

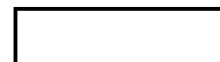
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.



25X1

SANTIAGO DE CUBA SAM ASSEMBLY AREA

CU 2003N 07553W



MAIN CAMP -- OB -- 22 FA PIECES, 27 FA PIECES/MORTARS, 41 CARGO TRUCKS, 2 VAN TRUCKS, AND 51 UTILITY TRUCKS. CAMP 1 NM NORTH -- OB -- 2 SA-2 LAUNCHERS, 7 MISSILE TRANSPORTERS (2 CANVAS COVERED), NUMEROUS MISSILE CANISTERS, 4 FLATBED TRACTOR TRAILERS, AND 13

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VEHICLES/PIECES OF EQUIPMENT.
NO APPARENT CHANGE IN FACILITIES IN BOTH AREAS.

25X1

SANTIAGO SAM TRAINING AREA

CU 1958N 07551W

25X1

OB -- 26 CARGO TRUCKS, 22 VAN TRUCKS, 3 UTILITY TRUCKS,
AND 4 CARGO TRAILERS.
NO APPARENT CHANGE IN FACILITIES.

25X1

SANTA ISABEL DE LAS LAJAS SAM SITE A35-2 CU 2228N 08018W

25X1

PERMANENT SITE REMAINS UNDER CONSTRUCTION.
OB (AT ADJACENT TEMPORARY SITE) -- 6 EMPLACED LAUNCHERS
(2 WITH MISSILES), 12 MISSILE TRANSPORTERS (3 WITH
EXPOSED MISSILES), A GUIDANCE RADAR WITH 6 ASSOCIATED
VAN TRAILERS, AND 4 OTHER VAN TRAILERS.
ACTIVITY -- 1 OCCUPIED 6-GUN AAA SITE.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

PALMA SORIANO SAM SITE A02-2

CU 2015N 07559W

25X1

OB -- 6 EMPLACED LAUNCHERS (1 WITH MISSILE), 1 OTHER
LAUNCHER ADJACENT TO THE RING ROAD, 6 MISSILE
TRANSPORTERS (4 CANVAS COVERED), 2 POSSIBLE MISSILE
TRANSPORTERS, A GUIDANCE RADAR WITH 6 ASSOCIATED VAN
TRAILERS, AND 7 OTHER VAN TRAILERS.
NO APPARENT CHANGE IN LAUNCH AND SUPPORT FACILITIES.

25X1

LA VEGUITA SAM ASSEMBLY AREA

CU 2049N 07615W

25X1

OB -- 4 CARGO TRUCKS AND NUMEROUS MISSILE CANISTERS
OBSERVED IN CLOUD-FREE AREAS.
NO APPARENT CHANGE IN FACILITIES.

25X1

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SAN PEDRO DE CACOCUM SAM SITE 1

CU 2047N 07615W NO COMOR

5.1 NM NE OF SAN PEDRO DE CACOCUM AT 20-47-10N
076-15-52W (UTM 18QUT683988).
NEWLY IDENTIFIED SA-2 SITE CONSISTS OF 5 UNREVIEWED
EMPLACED LAUNCHERS (2 WITH MISSILES), 1 POSSIBLE
LAUNCHER ADJACENT TO SITE, 6 MISSILE TRANSPORTERS (3
WITH EXPOSED MISSILES), A FAN SONG RADAR WITH 6
ASSOCIATED VAN TRAILERS, 3 POSSIBLE TRACKED PRIME
MOVERS, AND 11 OTHER VEHICLES/PIECES OF EQUIPMENT.
ACTIVITY -- 1 OCCUPIED 6-GUN LIGHT AAA SITE AT UTM
684987.
FACILITIES INCLUDE 2 BARRACKS AND 5 SUPPORT BUILDINGS.
(MAP REFERENCE -- AMS SERIES E723, SHEET 4978-III, 1ST
ED.)
(SEE ATTACHMENT 1)

25X1

SAN PEDRO DE CACOCUM SAM SITE 2

CU 2045N 07615W NO COMOR

4.5 NM ENE OF SAN PEDRO DE CACOCUM AT 20-45-45N
076-15-40W (UTM 18QUT686962).
NEWLY IDENTIFIED SA-2 SITE CONSISTS OF 1 COMPLETED
LAUNCH REVETMENT, 5 LAUNCH REVETMENTS IN
EARLY-TO-MID-STAGE OF CONSTRUCTION, A CENTRAL GUIDANCE
REVETMENT IN EARLY STAGE OF CONSTRUCTION, AND 1
POSSIBLE MISSILE-HOLD REVETMENT UNDER CONSTRUCTION. NO
MISSILE-ASSOCIATED VEHICLES OR PIECES OF EQUIPMENT
OBSERVED.
(MAP REFERENCE -- AMS SERIES E723, SHEET 4978-III, 1ST
ED.)
(SEE ATTACHMENT 2)

25X1

AIR FACILITIES

25X1

CAMILO CIENFUEGOS AIRFIELD

CU 2229N 07956W

OB -- 20 PROBABLE FAGOT/FRESCO AND 13 PROBABLE HOUND.

25X1

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25X1

CAMAGUEY INTERNATIONAL AIRFIELD

CU 2125N 07750W

[REDACTED]

OB -- 1 PROBABLE C-46 AND 1 PROBABLE C-47.

25X1

[REDACTED]

25X1

HOLGUIN AIRFIELD

CU 2047N 07618W

[REDACTED]

OB -- 13 FAGOT/FRESCO AND 12 HOUND.

25X1

[REDACTED]

25X1

ANTONIO MACEO AIRFIELD

CU 1958N 07550W

[REDACTED]

OB -- 1 COOT, 2 CRATE, 1 C-47 (ON RUNWAY), 1 MORAVA
L-200, 2 LIAISON, AND 2 HOUND.

25X1

[REDACTED]

25X1

JAIME GONZALES AIRFIELD

CU 2209N 08024W

[REDACTED]

OB -- NONE OBSERVED.

25X1

[REDACTED]

25X1

BAYAMO AIRFIELD EAST

CU 2022N 07637W

[REDACTED]

OB -- 3 COLT AND 3 LIAISON.

25X1

[REDACTED]

25X1

BAYAMO AIRFIELD

CU 2023N 07637W

[REDACTED]

OB -- NONE OBSERVED.
NO CHANGE IN CONSTRUCTION STATUS

25X1

[REDACTED]

[REDACTED]

25X1

25X1

[REDACTED]

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NAVAL ACTIVITY/PORTS

25X1

CIENFUEGOS NAVAL BASE

CU 2208N 08027W

OB -- 1 PROBABLE PCE AND 4 PROBABLE P-6-CLASS PT.
OTHER VESSELS -- 2 LARGE FREIGHTERS, 1 LARGE TANKER,
AND NUMEROUS SMALL CRAFT.

25X1

SANTIAGO DE CUBA NAVAL BASE AND PORT

CU 2001N 07550W

OB -- 1 KRONSTADT-CLASS PC.
OTHER VESSELS -- 3 LARGE FREIGHTERS, 1 COASTAL
FREIGHTER, AND 1 TANKER.
ACTIVITY -- A 30-TRUCK CONVOY LEAVING MALECON TERMINAL.

25X1

NUEVITAS PORT

CU 2132N 07715W

VESSELS -- 1 LARGE FREIGHTER.

25X1

LA ISABELA PORT

CU 2256N 08000W

VESSELS -- 1 LARGE FREIGHTER.

25X1

CAIBARIEN PORT

CU 2231N 07928W

VESSELS -- NONE OBSERVED.

25X1

CASILDA PORT

CU 2145N 07959W

VESSELS -- NONE OBSERVED.

25X1

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ANTILLA PORT FACILITIES

CU 2049N 07544W NO COMOR

OB -- 2 KRONSTADT-CLASS PC.
OTHER VESSELS -- 2 LARGE FREIGHTERS.

25X1

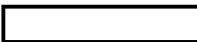


ELECTRONICS/COMMUNICATIONS

SANTIAGO DE CUBA EW/GCI RADAR SITE

CU 1959N 07551W

25X1



OB -- NONE OBSERVED.
ACTIVITY -- 14 TRACKED PRIME MOVERS, 39 CARGO TRUCKS,
AND 5 VAN TRUCKS.

25X1



MILITARY ACTIVITY

ALTO CEDRO MILITARY CAMP

CU 2029N 07600W

25X1



OB -- 21 PROBABLE TANKS/SP GUNS, 42 FA PIECES, 12 AAA
PIECES, 6 PROBABLE AAA PIECES, 5 PROBABLE MORTARS, 19
POSSIBLE BTR 60-P, AND 207 CARGO TRUCKS.
ACTIVITY -- 1 OCCUPIED 3-GUN LIGHT AAA SITE.
NO APPARENT CHANGE IN FACILITIES. SCATTERED CLOUDS AND
HAZE LIMIT INTERPRETATION.

25X1



DOS CAMINOS MILITARY CAMP

CU 2014N 07547W

25X1



OB -- AT LEAST 129 VEHICLES/PIECES OF EQUIPMENT.
NO APPARENT CHANGE IN FACILITIES. HAZE AND OBLIQUITY
LIMIT INTERPRETATION.

25X1



GUANTANAMO AREA

CU 2018N 07525W

25X1



NO NEW MILITARY ACTIVITY OBSERVED IN AREAS 1-4, 7, AND
8.

25X1



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25X1A

AREA 5 -- 50 PERCENT USEABLE COVERAGE. ONE SUPPORT BUILDING OBSERVED UNDER CONSTRUCTION AT UTM 18QVT734119 IN THE MILITARY CAMP.

AREA 6 -- 50 PERCENT USEABLE COVERAGE. ONE LIAISON AIRCRAFT IS ON A ROAD AT UTM 913202.

AREA 7 -- 75 PERCENT USEABLE COVERAGE.

AREA 9 -- 50 PERCENT USEABLE COVERAGE. AN IRRIGATION DITCH OBSERVED UNDER CONSTRUCTION FROM UTM 771088 TO 770087 TO 767082 TO 778075 AND TO 778072. ONE DRAGLINE AND 1 OTHER PIECE OF EQUIPMENT OBSERVED. NO CHANGE IN THE STATUS [REDACTED]

225X1

(MAP REFERENCE -- AMS SERIES E723, SHEET 5175-I, 3D ED, SHEET 5176-II, 4TH ED, AND SHEET 5176-III, 3D ED.)

25X1

25X1

HOLGUIN MILITARY CAMP

CU 2053N 07613W [REDACTED]

OB -- AT LEAST 200 VEHICLES OBSERVED IN CLOUD-FREE AREAS.
NO APPARENT CHANGE IN FACILITIES.

25X1

25X1

HOLGUIN MILITARY CAMP NW

CU 2057N 07616W [REDACTED]

OB -- 15 FA/AAA PIECES AND 19 CARGO TRUCKS OBSERVED IN CLOUD-FREE AREAS.
NO APPARENT CHANGE IN FACILITIES.

25X1

25X1

REMEDIOS MILITARY AREA

CU 2227N 07935W [REDACTED]

OB -- AT LEAST 20 TANKS/SP GUNS, 12 FA PIECES, AT LEAST 200 CARGO TRUCKS, AND 20 OTHER VEHICLES/PIECES OF EQUIPMENT.
NO APPARENT CHANGE IN FACILITIES.

25X1

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25X1

CAMAGUEY MILITARY CAMP

CU 2126N 07753W

OB -- NONE OBSERVED.
NO APPARENT CHANGE IN FACILITIES.

25X1

CUABITAS MILITARY CAMP

CU 2003N 07548W

OB -- 21 CARGO TRUCKS AND 18 VEHICLES/PIECES OF
EQUIPMENT.
NO APPARENT CHANGE IN FACILITIES.

25X1

LA QUINTA MILITARY CAMP

CU 2002N 07551W

OB -- 35 CARGO TRUCKS AND 15 PROBABLE AAA PIECES.
NO APPARENT CHANGE IN FACILITIES.

25X1

OFELIA MILITARY CAMP

CU 2006N 07530W

OB -- AT LEAST 6 TANKS/SP GUNS, 22 FA PIECES, 18
POSSIBLE FA PIECES, 5 AAA PIECES, 13 POSSIBLE AAA
PIECES, 34 MORTARS, 8 POSSIBLE TRACKED PRIME MOVERS,
AND 75 CARGO TRUCKS.
NO APPARENT CHANGE IN FACILITIES.

25X1

SANTA CLARA ARTILLERY TRAINING AREA

CU 2222N 08000W

OB -- 16 PROBABLE AAA PIECES, 15 CARGO TRUCKS, AND 11
OTHER VEHICLES.
ACTIVITY -- 2 OCCUPIED 6-GUN AAA SITES.
NO APPARENT CHANGE IN FACILITIES.

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25X1

SANTA CLARA MILITARY ACTIVITY

CU 2220N 07957W

OB -- NONE OBSERVED IN CLOUD-FREE AREAS.
NO APPARENT CHANGE IN FACILITIES.

25X1

SANTA ISABEL FINCA MILITARY CAMP

CU 2005N 07528W

OB -- NONE OBSERVED.
NO APPARENT CHANGE IN FACILITIES.

25X1

25X1

SANTIAGO DE CUBA MILITARY CAMP NW

CU 2003N 07554W

OB -- 30 CARGO TRUCKS AND 9 UTILITY TRUCKS.
NO APPARENT CHANGE IN FACILITIES.

25X1

25X1

SEIBABO MILITARY STORAGE AREA

CU 2218N 07959W

NO APPARENT CHANGE

25X1

25X1

LAS MERCEDES VEHICLE PARK

CU 2224N 08001W

OB -- 18 PROBABLE TRACKED PRIME MOVERS, AT LEAST 30
CARGO TRUCKS, 8 VAN TRUCKS, AND APPROXIMATELY 50 OTHER
VEHICLES.
NO APPARENT CHANGE IN FACILITIES.

25X1

25X1

NICARO LANDING BEACH

CU 2042N 07533W

NO NEW MILITARY ACTIVITY OBSERVED.

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25X1

GANUZA LANDING BEACH

CU 2305N 08030W

NO NEW MILITARY ACTIVITY OBSERVED.

25X1

CAYO DE SABINAL LANDING BEACH

CU 2144N 07728W

NO NEW MILITARY ACTIVITY OBSERVED.

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-STATUS OF OTHER TARGETS-

THE FOLLOWING TARGETS SHOW NO APPARENT CHANGE SINCE LAST COVERAGE--

LOS CANOS AIRFIELD	2005N 07509W
CAIBARIEN AIRFIELD	2230N 07928W
CAMAGUEY EW/GCI RADAR SITE	2121N 07751W
HOLGUIN EW/GCI RADAR SITE	2048N 07618W
LA SOCAPA LOW SIEVE RADAR SITE	1958N 07552W
LOS ANGELES RADAR SITE 1	2100N 07541W
PUERTO PADRE MILITARY AREA	2111N 07639W
SANTA CLARA MILITARY CAMP CUBANACAN	2224N 07952W
TRINIDAD POSS MILITARY HEADQUARTERS	2150N 07953W
SIBONEY LANDING BEACH	1957N 07542W
PLAYA YATERITAS LANDING BEACH	1958N 07457W
MAR VERDE LANDING BEACH	1957N 07556W
IMIAS LANDING BEACH	2005N 07440W
MOA (PUNTA GORDA) LANDING BEACH	2039N 07453W
MOA (CANANOA) LANDING BEACH	2039N 07502W

THE FOLLOWING TARGETS COULD BE IDENTIFIED BUT NOT INTERPRETED--

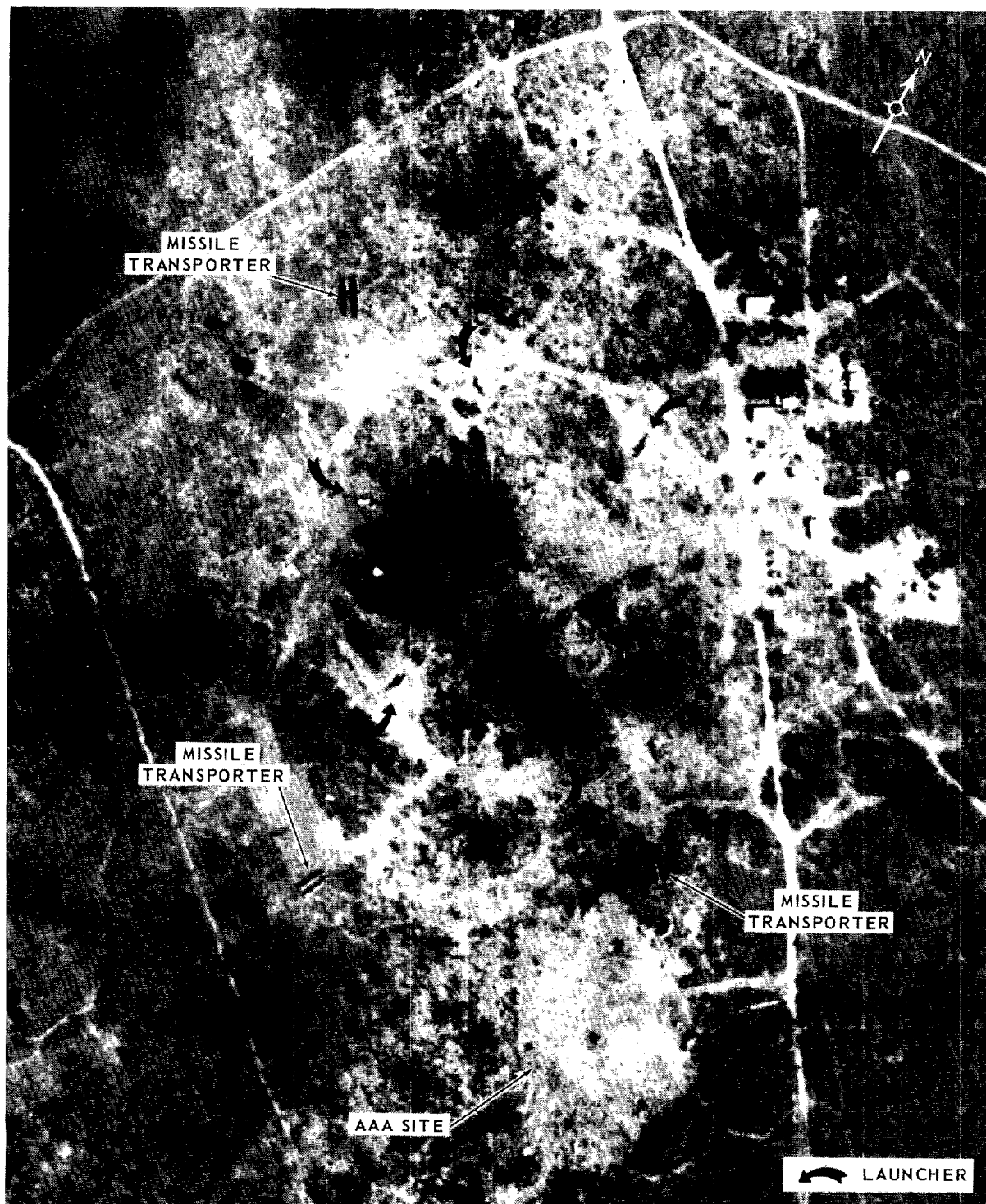
CIFUENTES SAM ASSEMBLY AREA	2236N 08005W
CONSTANCIA SAM SITE A10-2	2214N 08030W
MANZANILLO PORT	2021N 07707W
SANTA CLARA EW/GCI RADAR SITE	2229N 07956W
RANCHO LUNA LOW SIEVE RADAR SITE	2202N 08025W
SAGUA LA GRANDE EW/GCI RADAR SITE 2	2248N 08006W
PUNTA MULAS SUSPECT LOW SIEVE RADAR SITE	2101N 07535W
SAN MIGUEL EW/GCI RADAR SITE	2229N 07953W
ANTON RECIO MILITARY INSTALLATION	2211N 08036W
EL CRISTO MILITARY INSTALLATION	2008N 07547W
JURAGUA MILITARY ACTIVITY	2209N 08035W
CIENFUEGOS LANDING BEACH	2202N 08036W
ENSENADA COLORADO LANDING BEACH	2202N 08025W

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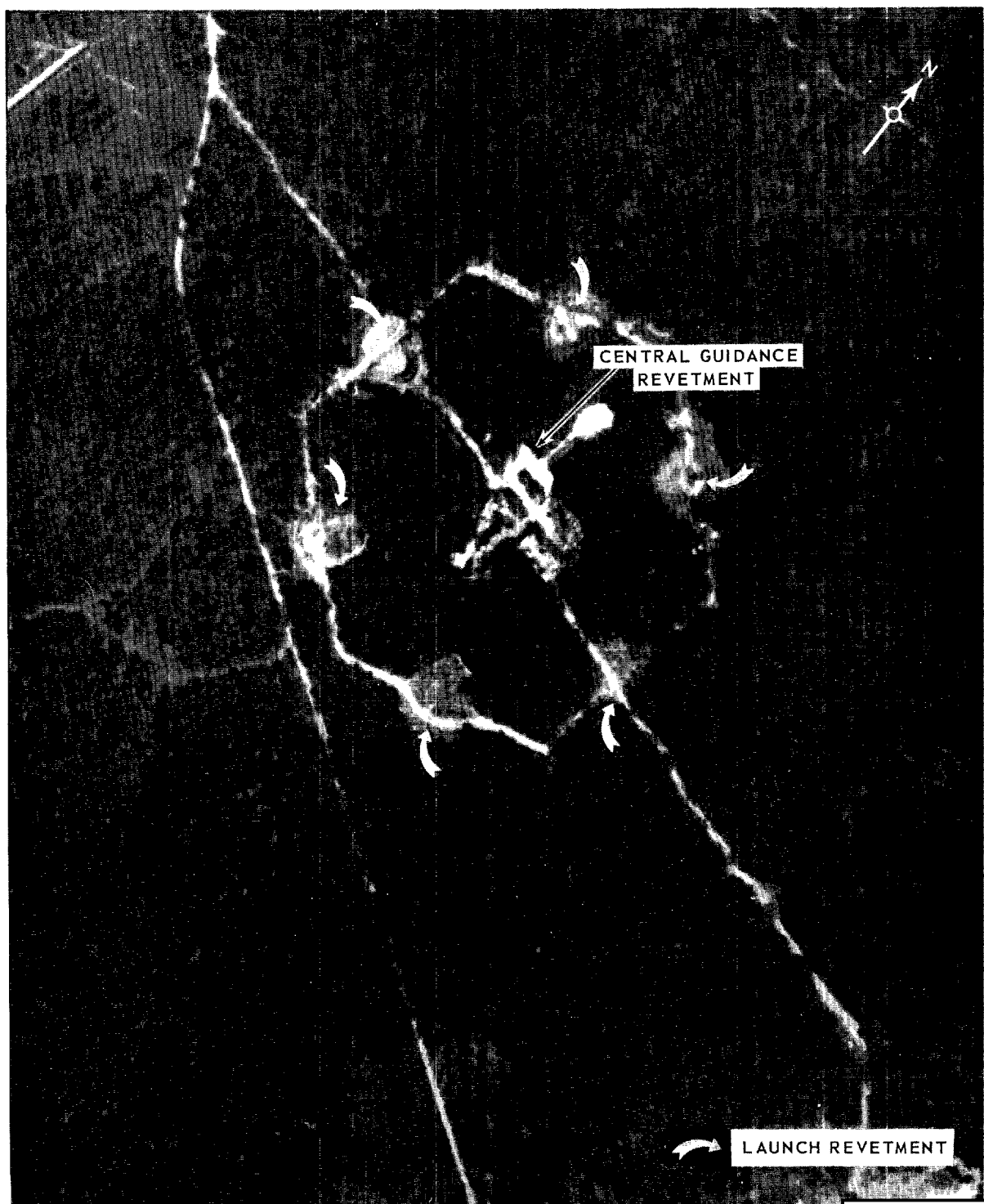
ATTACHMENT 1



SAN PEDRO DE CACOCUM SAM SITE 1

25X1

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SAN PEDRO DE CACOCUM SAM SITE 2

25X1

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